



ATTORNEY DOCKET 90141

REAL TIME VEHICULAR ROUTING AND TRAFFIC GUIDANCE SYSTEM

ABSTRACT OF THE DISCLOSURE

Real time information is provided to subscribers on vehicle flow on roads within territorial boundaries utilizing mobile devices, e.g., GPS enabled cell phones, as traffic probes. The information is used, for example, for real time vehicle routing, roadside emergency services requirements indication, traffic management or notifying public agencies of conditions, as well as to generate historical flow patterns. Subscribers may use cell phones, GPS enabled display panels, Internet enabled computers or PDAs. A system and a method capture, analyze and describe traffic conditions in a plurality of predefined grid segments, and supply to a subscriber base multiple levels of services comprising alerting subscribers of impending traffic jams, alternatively supplying subscribers via wireless communication or a network with routing instructions for a subscriber specific route segment between first and second nodes, or for a set of route segments in a subscriber specific or default stored matrix, following a known maximum flow algorithm. Traffic in fixed or variable segments ahead of highway entranceways is measured, and the data used to control directly traffic lights controlling access to the highway.